On using historical update information for instance identification in federated databases

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Abstract:
To support database interoperability in federated databases systems, it is crit able to identify (potentially) equivalent data instances from individual autonoı database components. Since the components in a federation are autonomous may be updated asynchronously, viz., modifications to a real world entity ma captured in different databases at different times; the authors term this effec heterogeneity. Existing approaches largely base data instance similarity ident only on current attribute/property values; in the face of update heterogeneity inadequate. They present an approach to address the problem of update hete the federated databases context. They employ a probabilistic model, which ut **historical database** update information to estimate the degree of similarity candidate data instances from different database components. They employ t history (**log**) information to this end, which is typically already available in th component database systems. They have experimentally implemented and te approach within the context of a prototype experimental federated databases FeXpress

Index Terms:
concurrency control database theory distributed databases open systems FeXpres autonomous database components database interoperability equivalent data instance **databases** **historical** update information instance identification probabilistic model

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National park management using self-developed an based geographic information systems

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Abstract:
Shei-Pa National Park is one of the six national parks in Taiwan. High mounta management and land-locked salmon conservation are pursued both daily an(term basis at Shei-Pa National Park. GIS was developed using brand-name co software and a set of self-developed, Web-based software. This paper discuss been done at Shei-Pa National Park using a self-developed and Web-based GI Databases have been created in the last seven years consisting of contour ma intervals, roads, rivers, forest compartments, geology, digital orthophoto map park planning maps, and maps and drawings for every construction project. N park management has to look into conservation, research, recreation, and en education simultaneously. Thus, GIS has been implemented to look all aspect problems associated with coordinates. Everything has to be **located** on releva The self-developed GIS can extract a single sheet of a 1:5000 map from the (on a color monitor for further examination whenever one set of x, y coordinat Different layers of maps, digital **images**, and attributes can be reviewed right Everything shown on a color monitor can be printed on a color printer. A palm device can show the required x, y coordinates in the mountains. GIS and **GPS** is the key component of the whole process. The whole process can also be pe using Internet Web browsers

Index Terms:

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geographic information systems natural resources GIS **GPS** integration Shei-Pa Park Taiwan Web-based **geographic** information systems construction projects c maps coordinates databases digital **images** digital orthophoto maps environmer education forests geology land-locked salmon conservation mountains managem park management planning maps recreation research rivers roads software

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